

MARKER CODE



Student Personal Identification Number

South Pacific Form Seven Certificate

AGRICULTURE

2023

QUESTION and ANSWER BOOKLET

Time allowed: Three hours

(An extra 10 minutes is allowed for reading this paper.)

INSTRUCTIONS

- Write your **Student Personal Identification Number (SPIN)** in the space provided on the top right-hand corner of this page.
- Answer **ALL QUESTIONS**. Write your answers in the spaces provided in this booklet. For **Multiple Choice Questions**, circle the letter that represents the **BEST** answer.
- If you need more space for answers, ask the Supervisor for extra paper. Write your SPIN on all extra sheets used and clearly number the questions. Attach the extra sheets to the appropriate places in this booklet.

Major Learning Outcomes (Achievement Standards)	Skill Level & Number of Questions				Weight/ Time
	Level 1 <i>Uni- structural</i>	Level 2 <i>Multi- structural</i>	Level 3 <i>Relational</i>	Level 4 <i>Extended Abstract</i>	
Strand 1: Production Management Demonstrate knowledge application and critical evaluation of skills of production management of a locally produced animal primary product and a locally produced plant primary product.	2	4	3	2	27% 69 min
Strand 2: Sustainable Primary Production Demonstrate knowledge application and critical evaluation of primary production practices that ensure sustainable production.	2	3	3	3	29% 75 min
Strand 3: Marketing in Primary Production Demonstrate knowledge application and critical evaluation of local and export primary production and the influence of market controls.	2	1	2	1	14% 36 min
TOTAL	6	8	8	6	70% 180 min

Questions in this examination require you to refer to primary products from your own country.

Check that this booklet contains pages 2–21 in the correct order and that none of these pages are blank.

HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

STRAND 1: PRODUCTION MANAGEMENT

Assessor's use only

1.1 **Select one primary product (either plant or animal) that is locally produced in your country to answer this question.**

Name of your country: _____

Primary product: _____

Crops and livestock thrive when given optimum conditions for growth and living.

Identify **one** factor that should be considered when selecting a suitable site for producing the primary product that you have chosen.

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1.2 Proper crop management is important for crop yield in relation to the quality and quantity of crops that are produced. The diagram below illustrates a management practice in crop production.



Source: https://media.istockphoto.com/id/1297093841/photo/tomato-plants-with-ripe-tomatoes-growing-outdoors-in-england-uk.jpg?s=612x612&w=0&k=20&c=x|ADDQiRspzpr_9J8MprUeOyvquLYiXa7pOEWPqeaI=

Name the management practice that is illustrated above.

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<p>1.3</p>	<p>A schedule of operation comprises orderly activities that are carried out on the farm and is crucial in any agricultural enterprise.</p> <p>Describe the process of raising seedlings that the farmer would undertake during crop production.</p> <hr/> <hr/> <hr/>	<table border="1"> <tr> <th colspan="2">Multistructural</th> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>1</td> <td></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>NR</td> <td></td> </tr> </table>	Multistructural		2		1		0		NR	
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<p>1.4</p>	<p>Access to land is crucial for farmers to engage in agricultural activities. Without land, farming cannot be carried out.</p> <p>List two ways that farmers can obtain land for farming.</p> <hr/> <hr/> <hr/>	<table border="1"> <tr> <th colspan="2">Multistructural</th> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>1</td> <td></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>NR</td> <td></td> </tr> </table>	Multistructural		2		1		0		NR	
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<p>1.5</p>	<p>Post-harvest is a process carried out after harvesting.</p> <p>The diagram below illustrates a post-harvest technique in a manufacturing factory.</p>  <p>Source: https://www.dairyfoods.com/ext/resources/DF/2014/January/img1-slide1.jpg?t=1389277770&width=696</p> <p>Describe how the post-harvest technique illustrated above is carried out.</p> <hr/> <hr/> <hr/>	<table border="1"> <tr> <th colspan="2">Multistructural</th> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>1</td> <td></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>NR</td> <td></td> </tr> </table>	Multistructural		2		1		0		NR	
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1.6	<p>Productivity in livestock farming will depend on the type of breed selected.</p> <p>List two criteria that a farmer would look for in selecting a suitable breed of livestock to be reared on the farm.</p> <hr/> <hr/> <hr/> <hr/>	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">Multistructural</th> </tr> </thead> <tbody> <tr> <td style="width: 20px; text-align: center;">2</td> <td style="width: 40px;"></td> </tr> <tr> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td style="text-align: center;">NR</td> <td></td> </tr> </tbody> </table>	Multistructural		2		1		0		NR			
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1.7	<p>Select <u>one primary product</u> (either plant or animal) that is locally produced in your country to answer this question.</p> <p>Primary product: _____</p> <p>Effective management of crop and livestock production involves the timely implementation of specific practices within given time frames to enhance productivity.</p> <p>Explain the importance of timing in the management of the selected primary product and provide reasons to support your argument.</p> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	<table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">Relational</th> </tr> </thead> <tbody> <tr> <td style="width: 20px; text-align: center;">3</td> <td style="width: 40px;"></td> </tr> <tr> <td style="text-align: center;">2</td> <td></td> </tr> <tr> <td style="text-align: center;">1</td> <td></td> </tr> <tr> <td style="text-align: center;">0</td> <td></td> </tr> <tr> <td style="text-align: center;">NR</td> <td></td> </tr> </tbody> </table>	Relational		3		2		1		0		NR	
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STRAND 2: SUSTAINABLE PRIMARY PRODUCTION

Assessor's use only

2.1 Modern farmers have been enlightened with knowledge and skills in becoming resilient towards the effects of climate change and ensuring sustainability.

The diagram below illustrates an example of sustainable agriculture.

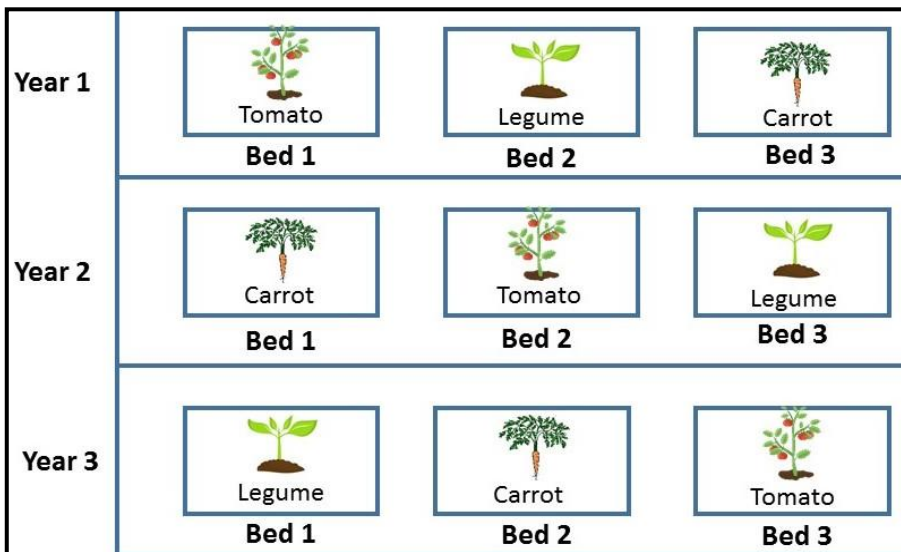


Source: <https://avisomo.com/the-potential-for-renewable-energy-in-vertical-farming/>

State the type of sustainable agricultural practice shown above.

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2.2 Practising better cropping methods maintains food security and sustainability. The diagram below illustrates a cropping method practised by farmers.



Source: <https://nwdistrict.ifas.ufl.edu/hort/files/2019/03/Gardening-in-the-Panhandle-Article-2.jpg>

Name the cropping method shown above.

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<p>2.3</p>	<p>Waste comes in many forms and can have negative impacts on the environment. Livestock waste is one example that can contribute to pollution and harm natural surroundings.</p> <p>Describe one method or technique a farmer might use to manage livestock waste on their farm.</p> <hr/> <hr/> <hr/> <hr/> <hr/>	<table border="1"> <tr> <th colspan="2">Multistructural</th> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>1</td> <td></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>NR</td> <td></td> </tr> </table>	Multistructural		2		1		0		NR	
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<p>2.4</p>	<p>Pathogens are disease-causing organisms that live and survive in non-hygienic surroundings.</p> <p>List two hygiene practices that are important to be carried out on the farm to prevent diseases and sustain long-term production for farmers.</p> <hr/> <hr/> <hr/> <hr/> <hr/>	<table border="1"> <tr> <th colspan="2">Multistructural</th> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>1</td> <td></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>NR</td> <td></td> </tr> </table>	Multistructural		2		1		0		NR	
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<p>2.5</p>	<p>Organic farming practices have gained popularity in recent years due to concerns about the environmental and health impacts of conventional farming techniques.</p> <p>List two examples of organic farming practices that can be implemented on a school farm.</p> <hr/> <hr/> <hr/> <hr/> <hr/>	<table border="1"> <tr> <th colspan="2">Multistructural</th> </tr> <tr> <td>2</td> <td></td> </tr> <tr> <td>1</td> <td></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>NR</td> <td></td> </tr> </table>	Multistructural		2		1		0		NR	
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STRAND 3: MARKETING IN PRIMARY PRODUCTION

Assessor's use only

<p>3.1</p>	<div> </div> <p>Source: https://businessjargons.com/international-marketing.html</p> <p>State a role of international marketing in your country.</p> <hr/> <hr/> <hr/>	<table border="1"> <thead> <tr> <th colspan="2">Unistructural</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>NR</td> <td></td> </tr> </tbody> </table>	Unistructural		1		0		NR	
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	<p>Use the information below to answer questions 3.2 and 3.3.</p> <p>Select <u>one primary product</u> (either plant or animal) that is locally produced in your country.</p> <p>Name of your country: _____</p> <p>Primary product: _____</p>									
<p>3.2</p>	<p>Growers' organisations assist farmers in sharing knowledge and skills about farming and also in the marketing of primary products.</p> <p>Name the growers' organisation in your country that assists farmers for local and export markets for your selected primary product.</p> <hr/> <hr/> <hr/>	<table border="1"> <thead> <tr> <th colspan="2">Unistructural</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>NR</td> <td></td> </tr> </tbody> </table>	Unistructural		1		0		NR	
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